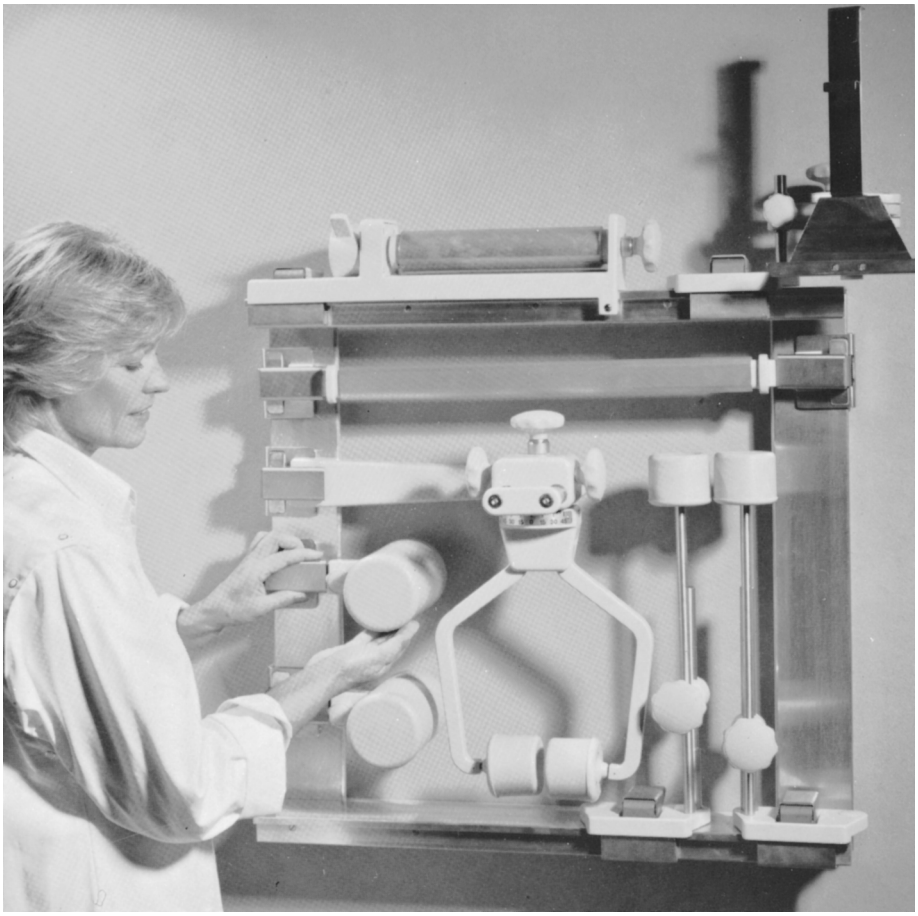
Radiography



INSTRUCTIONS FOR USE

Radiographic Accessories

English

PHILIPS

CONTENTS

SAFETY PROCEDURES	**2**
DESCRIPTION	**2**
OPERATION	**3**
Handgrips	3
Bar grip	3
Back supports	4
Ankle clamps	5
Head clamp	6
Ratchet compressor, single-side pull	7
Ratched compressor, symmetrical pull	8
Arm support	9
Holder for infusion bottles	9
Leg supports	10
Arthrography leg clamp	10
Lateral cassette clamp	11
Lateral cassette clamp, adjustable	11
Cassette holder for vertical bucky stands	12
Cassette holder for long size cassettes on the vertical bucky stand	13
CLEANING	**14**
DISINFECTION	**14**

SAFETY PROCEDURES

This manual is intended to assist the user in the safe and efficient operation of the equipment described. The equipment must be used in accordance with the safety procedures described below, and must not be used for purposes other than those for which it was designed. The equipment may only be used by persons having recognized qualification, including adequate training in radiation protection.

It is the responsibility of the user to ensure that the government regulations respecting operation of the equipment are observed.

Incorrect operation, or failure of the user to maintain the equipment in accordance with the schedule of maintenance, relieves the manufacturer or his agent from all responsibility for consequent non-compliance, damage or injury.

The equipment must not be used if any component is defective.

Changes and additions to the equipment may only be carried out by Philips or by third parties expressly authorized by Philips to do so. Such changes must comply with local regulations and accepted standards of good practice.

In the latter case, instruct the third party concerne to issue a certificate specifying the kind and extent of the repair including the applicable details on any change of ratings or working ranges. The certificate should show the date of performance and the name of the company with signature.

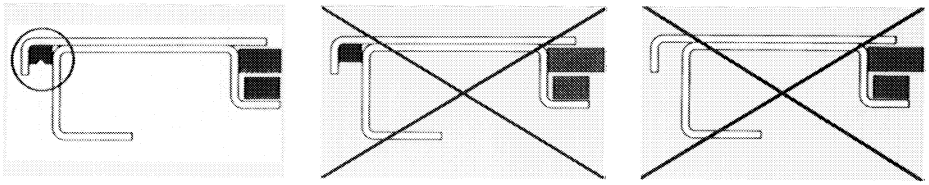
All personnel present in the procedure room must exercise radiation safety practice common to any system involving radiography, fluorography and fluoroscopy.

For the safety of the patient the user should, if necessary, employ accessories for radiation protection in addition to those provided on the equipment itself *(e.g. collimator, spacer, filter).*

DESCRIPTION

Radiographic accessories serve to secure and fix the patient in position or to provide radiographic backup.

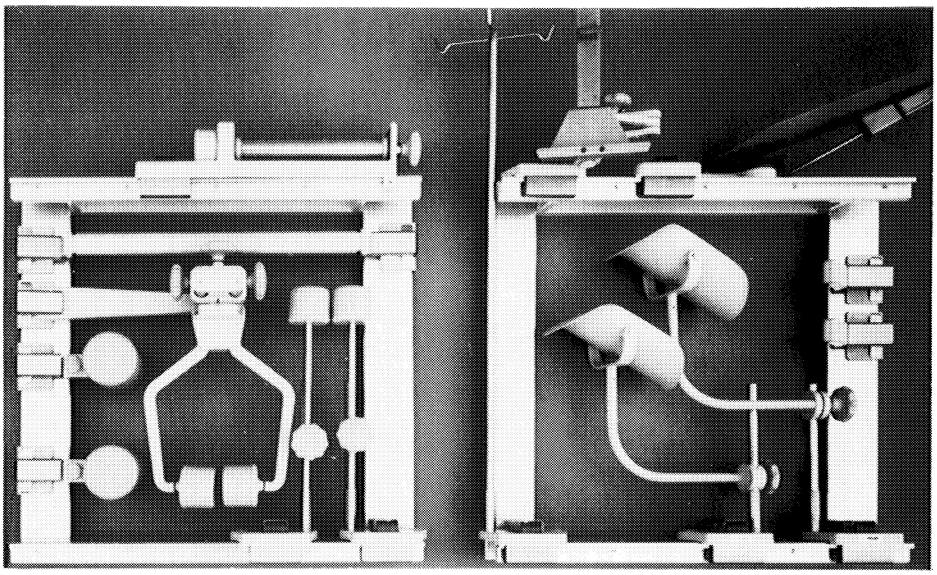
Accessories can be attached to any X-ray units which have V-groove flat section rails.



Most of the accessories are attached to the flat section rails on exactly the same manner. They are clamped to the rail with a tension lever.

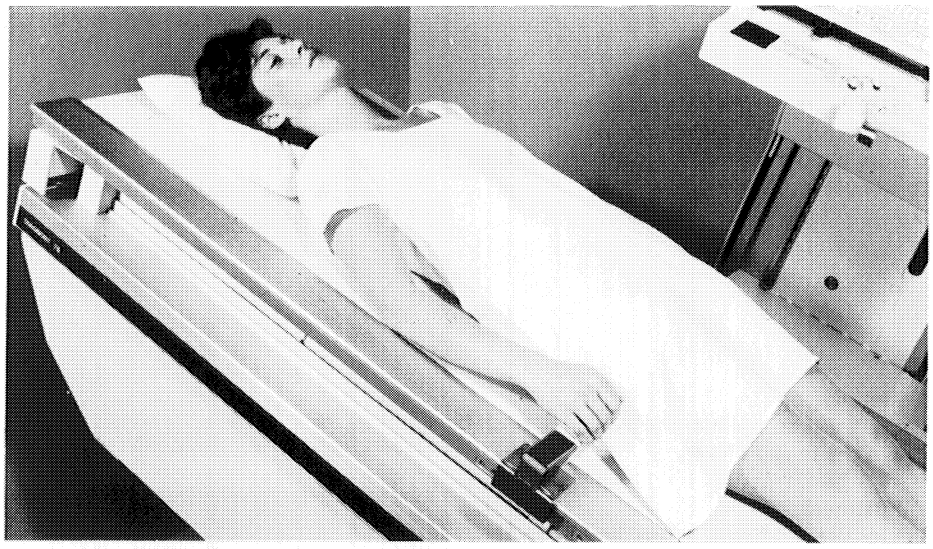
Caution
The tension lever is higly sprung so make sure your fingers do not get caught.

When not in use the individual accessories are fixed to a wall parking frame where they can be kept safely and tidely, taking up a minimum of space.



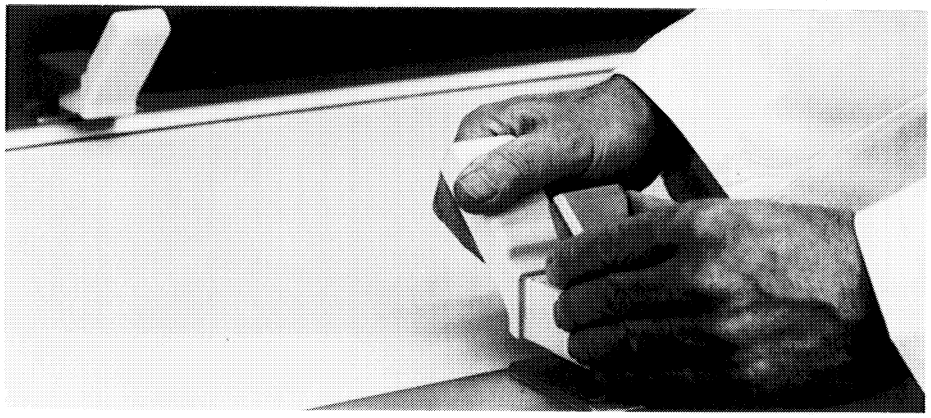
Handgrips

Application
Secure positioning. They are designed to prevent the patient from interfering with the moving parts of the equipment while the examination is taking place.



Fastening
Place handgrip against the rail and push the tension lever down.

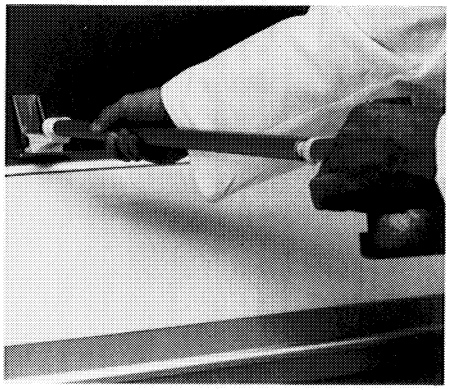
Release
Hold the grip tightly and pull the tension lever up.

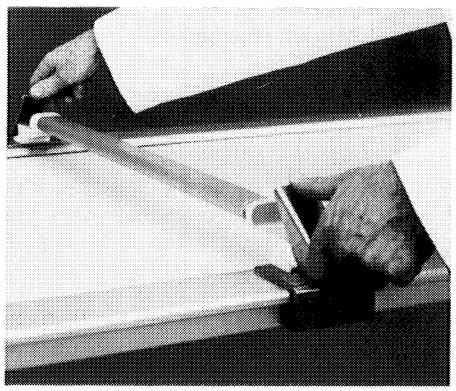


Bar grip

Application
Gastro-intestinal exposures, choledochograms (spot radiography), with rotated images.

Fastening
Position the bracket on the opposite side of the table top. Pull the spring-loaded grip towards you and position the other bracket nearest you on the table.

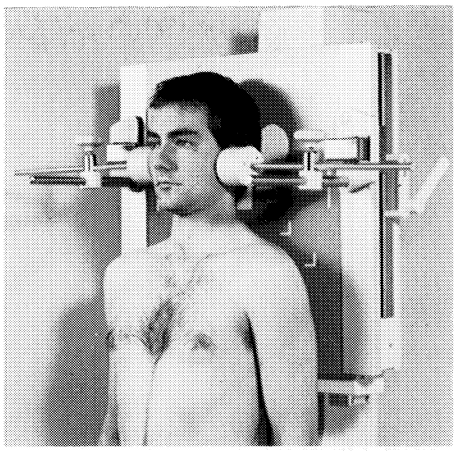


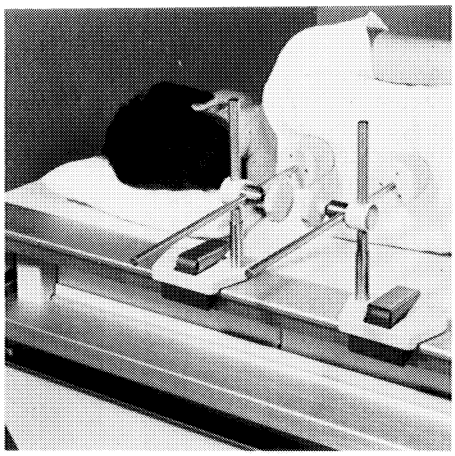


Release
Pull up both tension levers, pull the spring-loaded bar grip towards you and lift it off.

Back supports

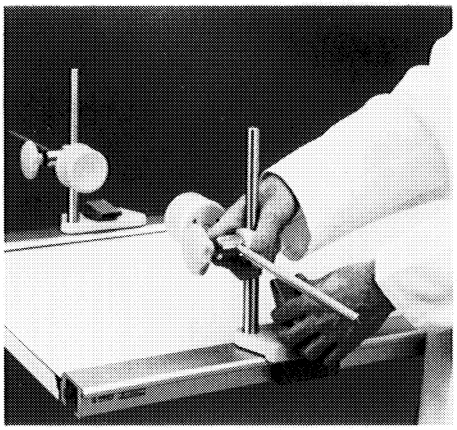
Application
For support in the case skull exposures, spine exposures, sternum exposures and thorax exposures to prevent blurring due to the patient moving.

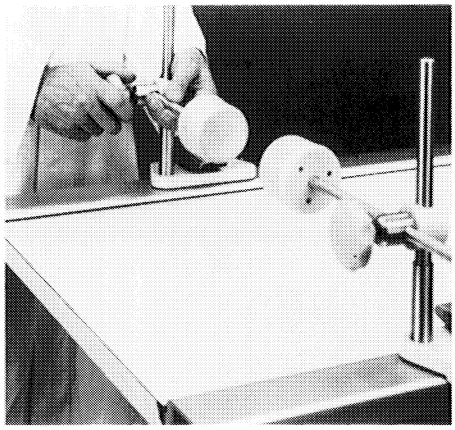




Fastening
Place bracket against the rail and push down the tension lever.

Adjustment
Undo the clamping screw and slide the support laterally and vertically as required. Tighten up the clamping screw again.

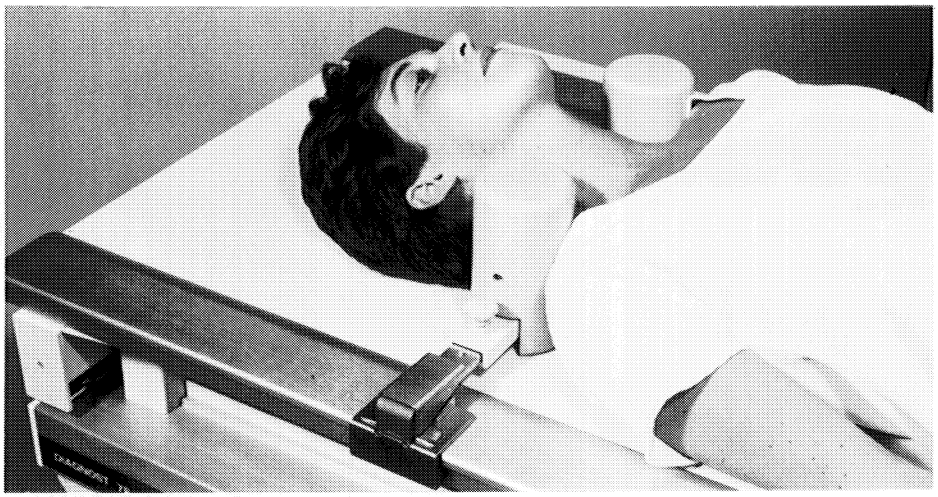




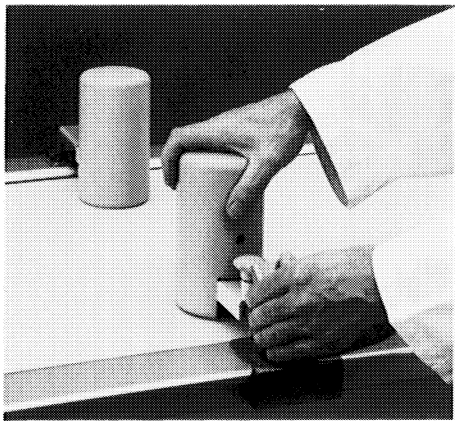
Release
Hold the support and pull up the tension lever.

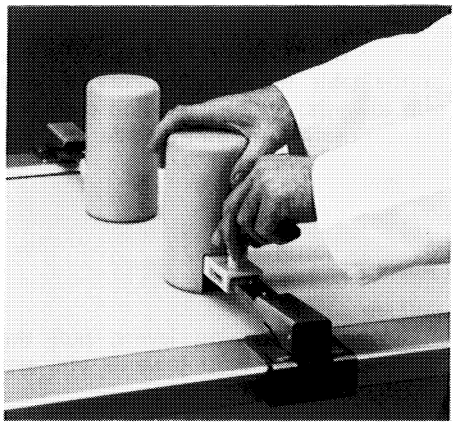
Shoulder rests

Application
For support in the Trendelenburg position e.g. for myelography. For Trendelenburg positions in excess of 40^{o} it is imperative that the ankle clamps also be used!



Fastening
Place the brackets against the rail and push the tension lever down.



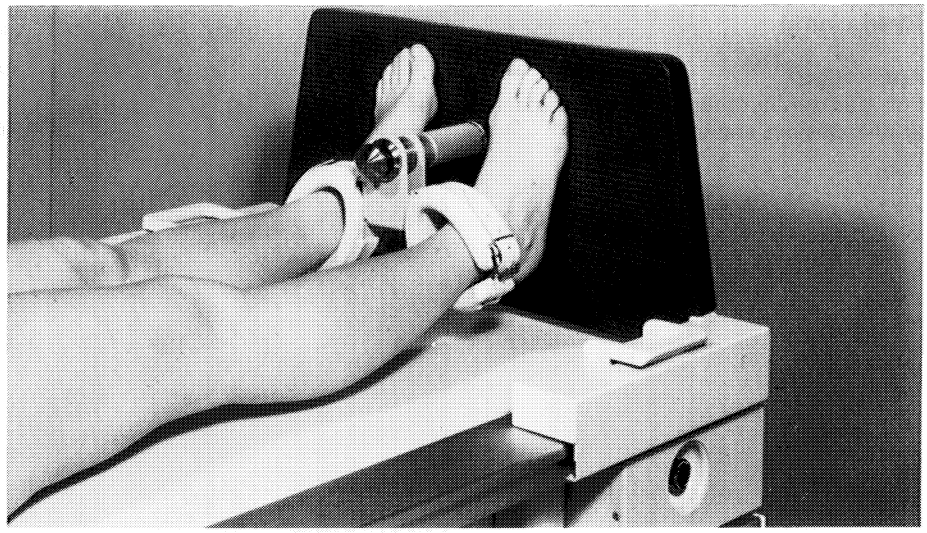


Adjustment
Undo the clamping screw and slide the rest laterally. For secure attachment the clamping screw must screw into one of the three recesses when tightening up.

Release
Hold the shoulder rest and pull up the tension lever.

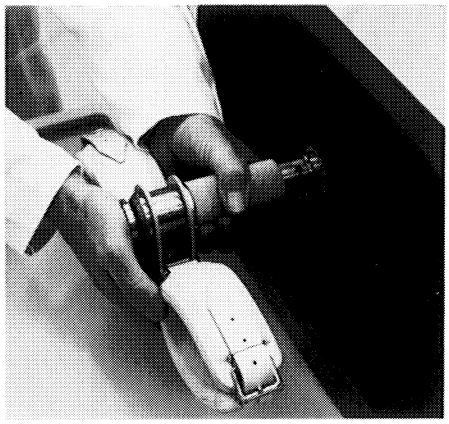
Ankle clamps

Application
For extreme Trendelenburg positions. For myelography over the entire spine with the option of rotating the patient.



Fastening
Pull out the outer sleeve, push the lock-in button in with the ball of the thumb and insert the bracket into the hole in the foot rest as far as it will go, then release the button and outer sleeve. Make sure the bracket is locked in place safely.

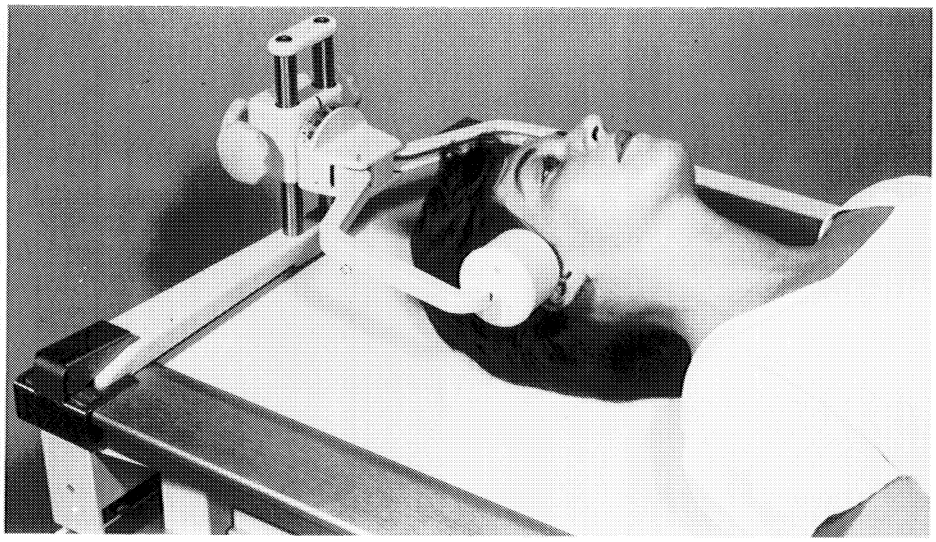
Close the two collars with the strap buckles.



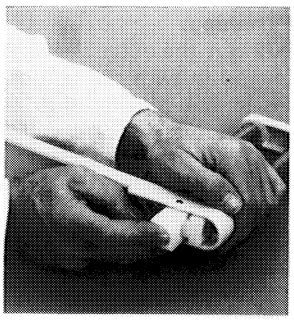
Release
Pull out the outer sleeve, push in the lock button and pull out the bracket.

Head clamp

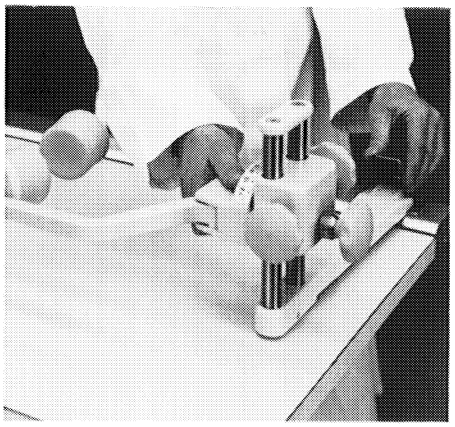
Application
For positioning the patient for special skull exposures and tomography.

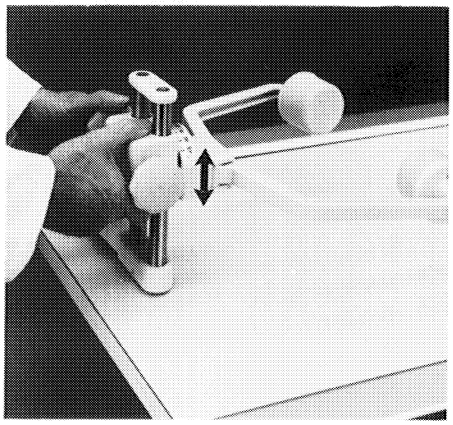


Fastening
Before the head clamp is attached to the rail, adjust the support underneath the bracket according to the type of table top.
For flat table top: both supports sunk into the bracket. For slightly concave table top: short support swivelled outwards.
For highly concave table top: long support swivelled outwards.



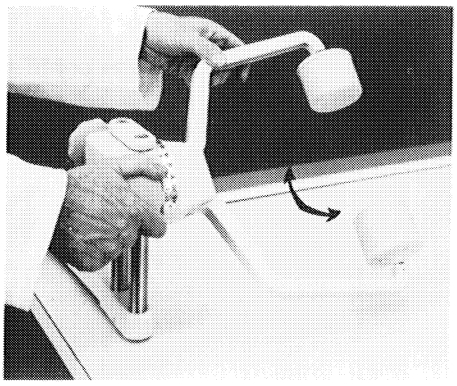
Place the bracket against the table top rail and press down the tension lever.

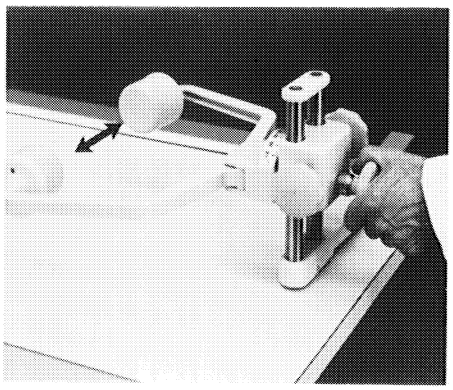




Adjustment
Undo the left clamping screw and adjust the head clamp for height, then tighten up the clamping screw.

Undo the right clamping screw and adjust the angle of rotation using the angle scale. Tighten up the clamping screw.

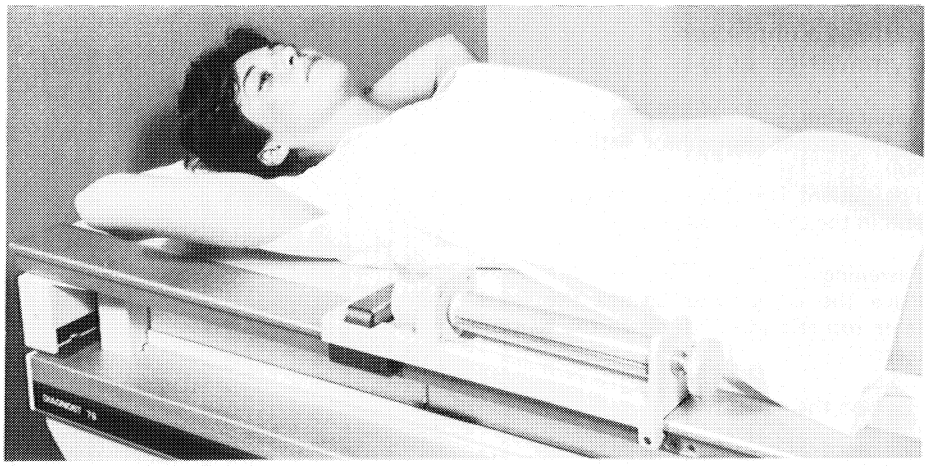




Open/close the jaws with the centre screw.

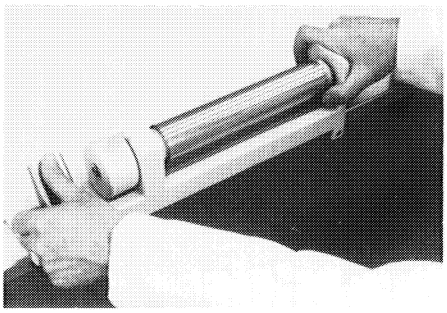
Release
Hold the head clamp tightly and pull up the tension lever.

Ratched compressor
(single-sided pull)

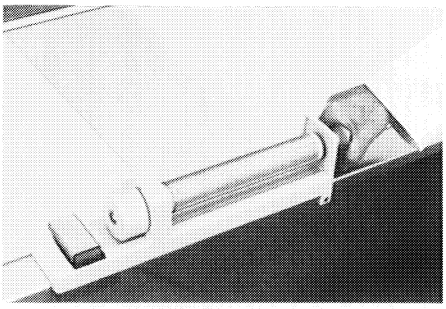


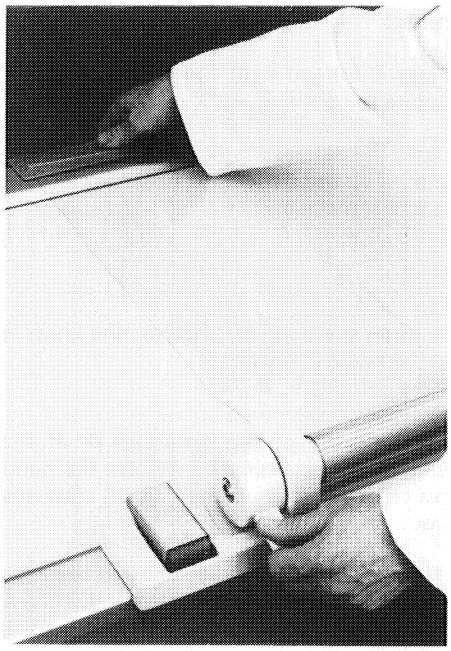
Application
For nephrography, e.g. intravenous pyelography, in order to prevent contrast medium discharging into the bladder or to cause reflux into the renal calyx system.

Fastening
Place compressor against the front table top rail and press down the tension lever.



Pull the lock-in lever towards you, place the compressor across the patient and hook the fastening rail onto the opposite table top section.

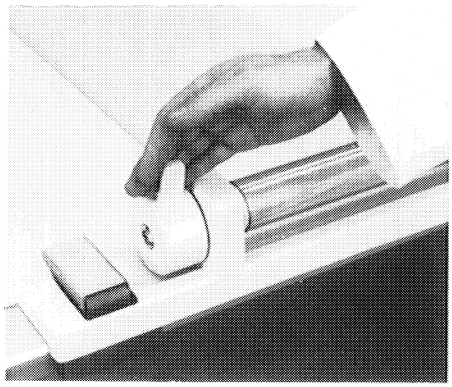




Tighten up the compressor by rotating the knob in a clockwise direction.

Release
In the event of any complications or at the end of the examination release the compressor by moving the lock-in lever towards you.

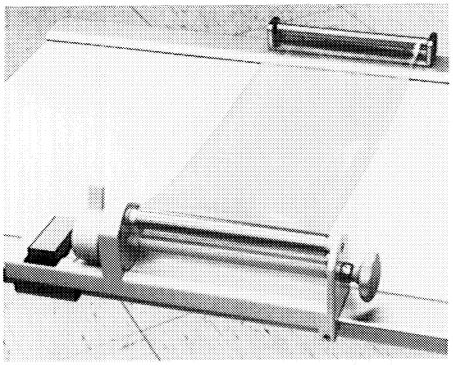
Remove the fastening rail and roll up the compression band using the knob. Hold the compressor and release the tension lever.

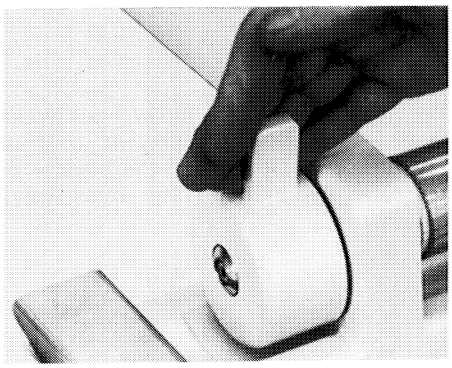


Ratchet compressor
(symmetrical pull)

Application
As for ratchet compressor with one-sided pull.
The patient is not turned because of the pull in the other direction.

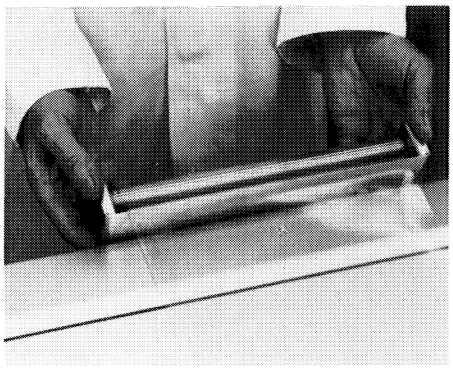
Fastening
Place the compressor against the front table top rail and push down the tension lever.





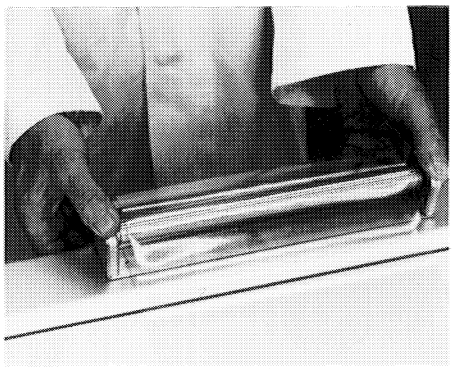
Position the patient

Move the lock-in lever towards you and pull out the band and the deflection roller.



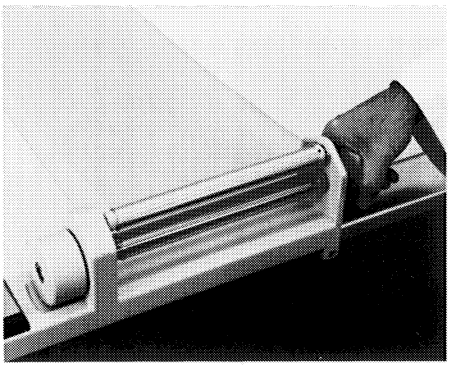
Place the band with the deflection roller across the patient.

Place the deflection roller on the opposite side. Tilt the deflection roller up so that it locks in place.



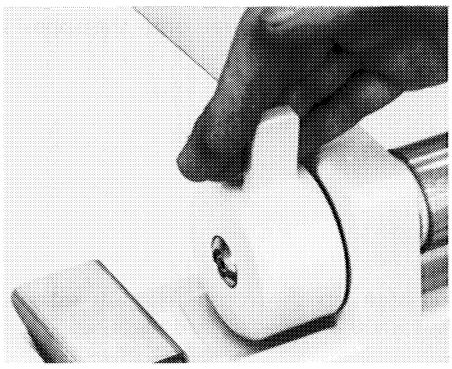
Tighten the band by rotating the knob in a clockwise direction.

Release
In the event of complications or at the end of the examination release the band by moving the lock-in lever towards you.



Tilt the deflection roller towards the edge of the table top rail and remove it.

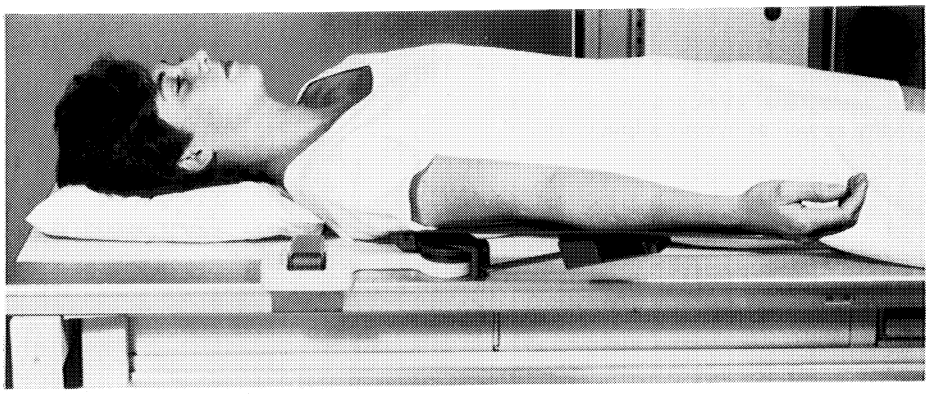
Hold the deflection roller with one hand and with the other hand roll up te band using the knob.



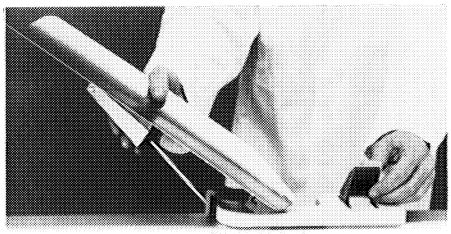
Hold the compressor and release the tension lever.

Arm support

Application
For administering contrast medium and performing an infusion.

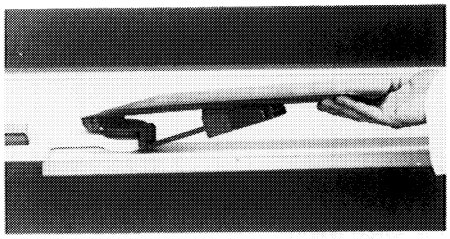


Fastening
Place base against the rail of the table top and press the tension lever down.

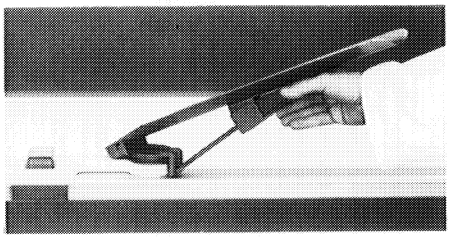


Adjustment
To rotate and raise, lift the arm support up slightly.

To lower, press both halves of the lock-in device together.

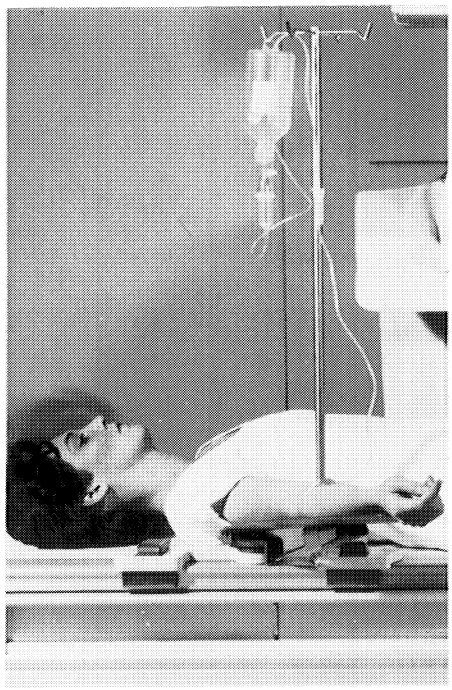


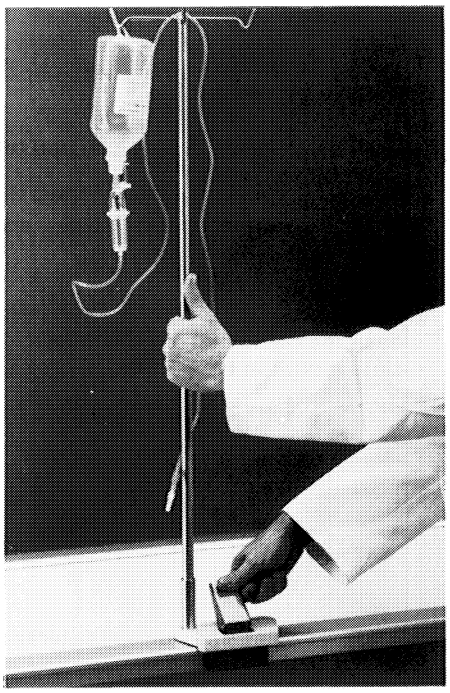
Release
Hold the arm support and pull up the tension lever.



Holder for infusion bottles

Application
For attaching infusion bottles (no contact with the floor) with reliable follow-up when the table top is moved.





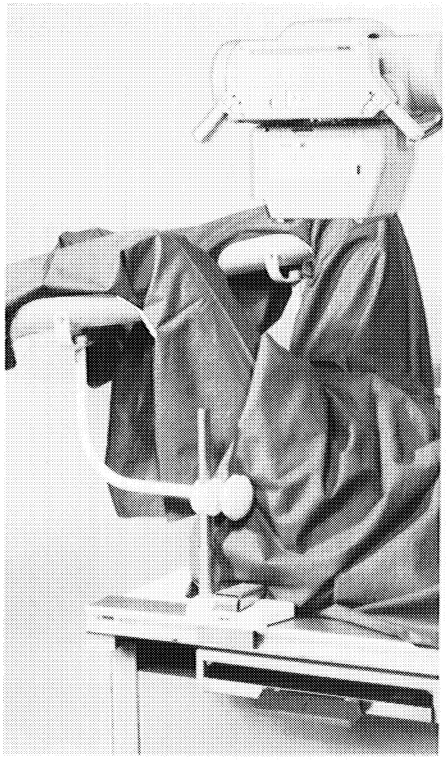
Fastening
Place the base against the rail of the table top and press down the tension lever.

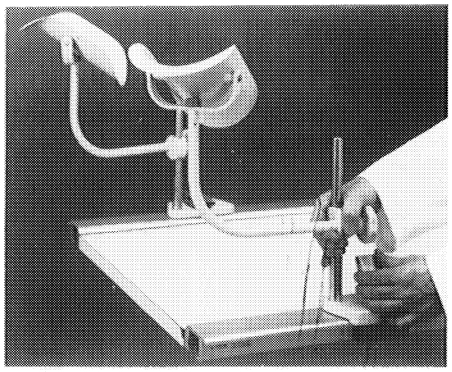
Release
Hold the bottle holder and pull up the tension lever.

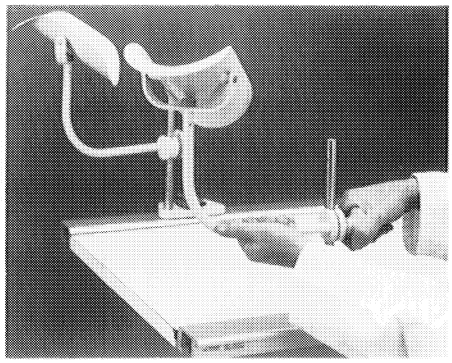
Leg supports

Application
For retrograde pyelography and cystography as well as hysterosalpingography.

Fastening
Place the base of the leg supports against the table top section and press down the tension lever.







Adjustment
Undo the knob, adjust the leg holders laterally and vertically and then tighten the knob again.

Release
Hold the support and pull up the tension lever.

Arthrography leg clamp

Application
For arthrography on the knee joint.

Fastening
Before the leg clamp is attached to the rail, the support must be adjusted within the base of the clamp according to the type of table top.

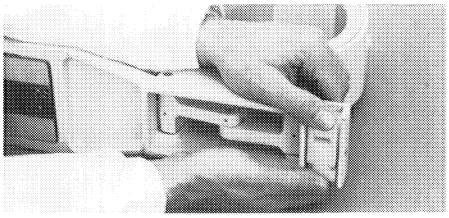
For flat table top: both supports must be sunk into the base.

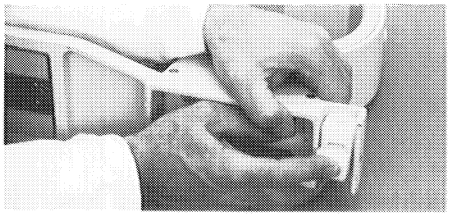
For flat table top: both supports must be sunk into the base.

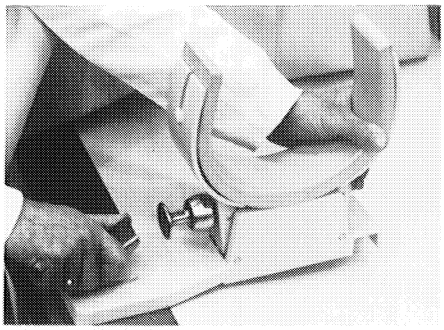
For slightly concave table top: short support swivelled outwards.

For highly concave table top: long support swivelled outwards.

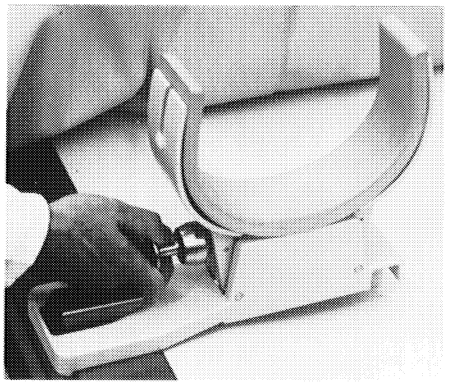
Place the leg clamp against the rail and push down the tension lever.

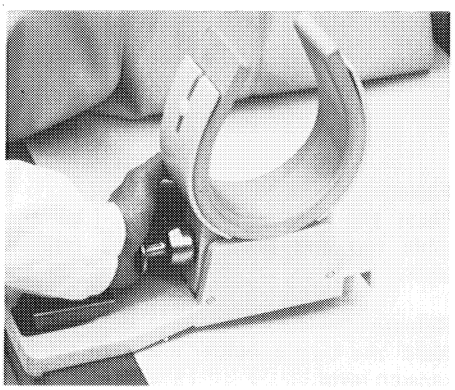






Adjustment
To open the clamp pull out the button.
To close it push in the button.

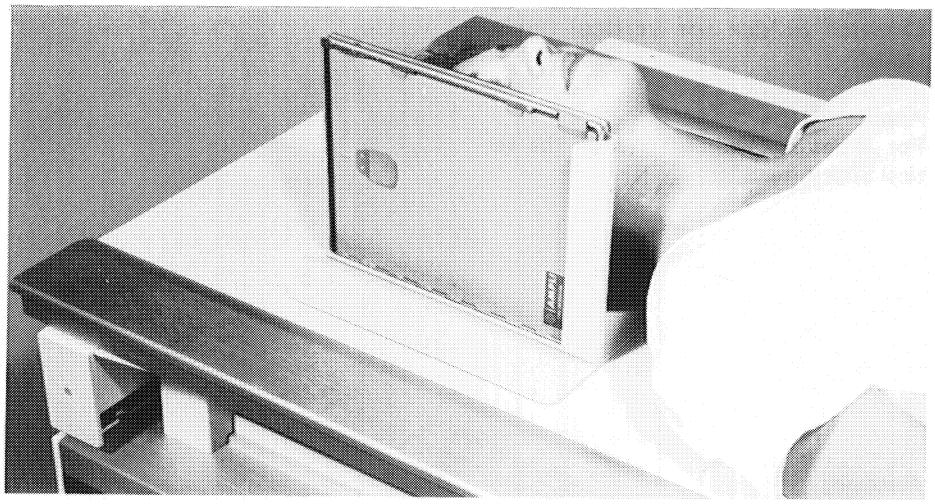




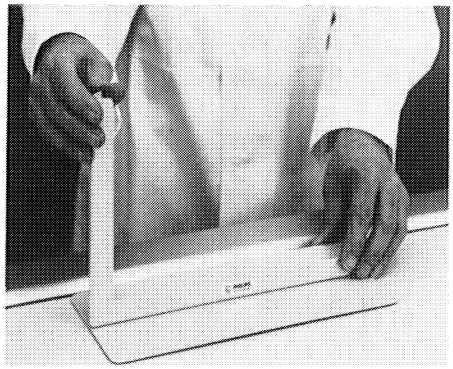
Release
Hold the leg clamp and pull up the tension lever.

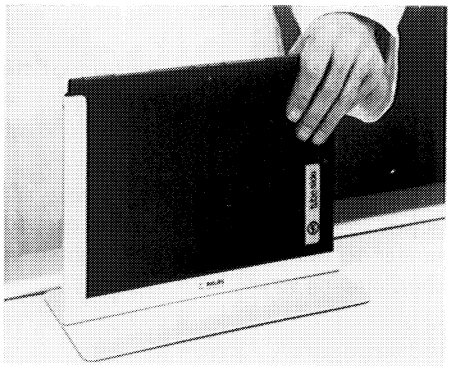
Lateral cassette holder

Application
For holding cassettes during lateral exposures.



Fastening
The base has a self-adhesive underside. The cassette holder can thus be positioned at any point on the table top without it slipping.

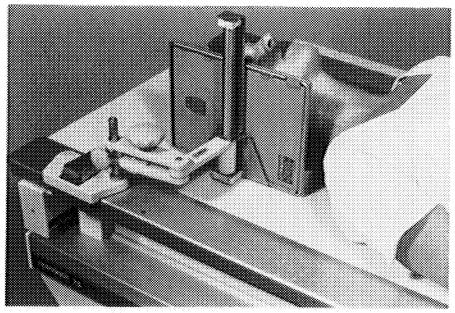


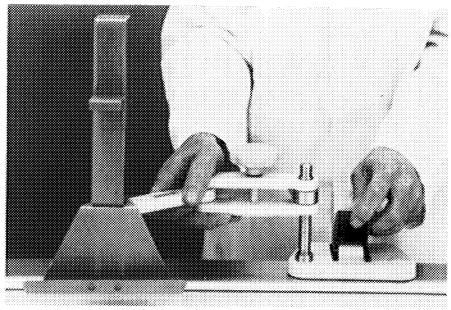


Insert cassette into the angled rails.

Lateral cassette clamp, adjustable

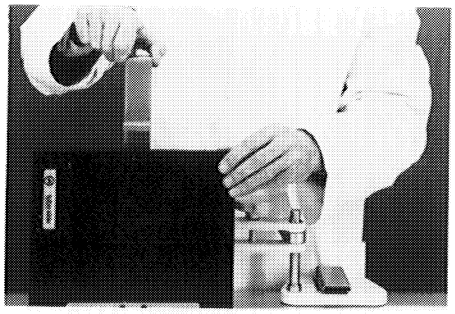
Application
For holding cassettes during lateral exposures.

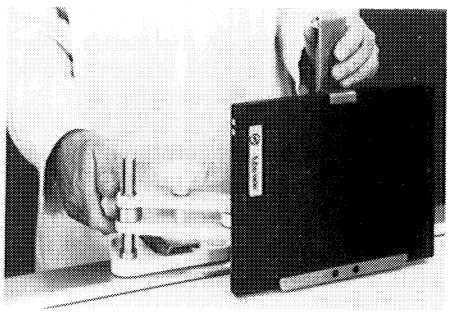




Fastening
Place space against the rail and push down the tension lever.

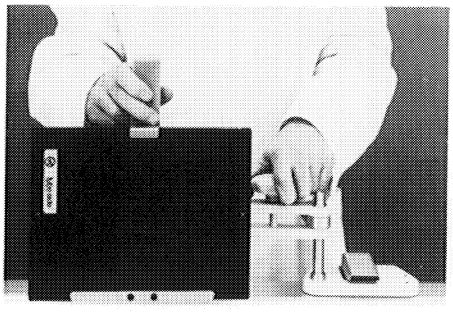
Insert cassette
Lift up the cassette clamp, insert the cassette into the lower rails at the centre and lower the clamp.

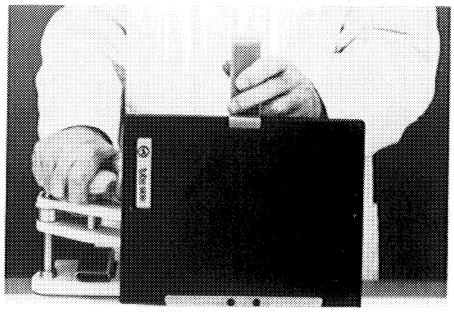




Adjustment
Undo the lateral clamping screw and adjust the holder to the required height. Tighten up the clamping screws.

Undo the top clamping screw and swivel the holder into the required position. Tighten up the clamping screw.

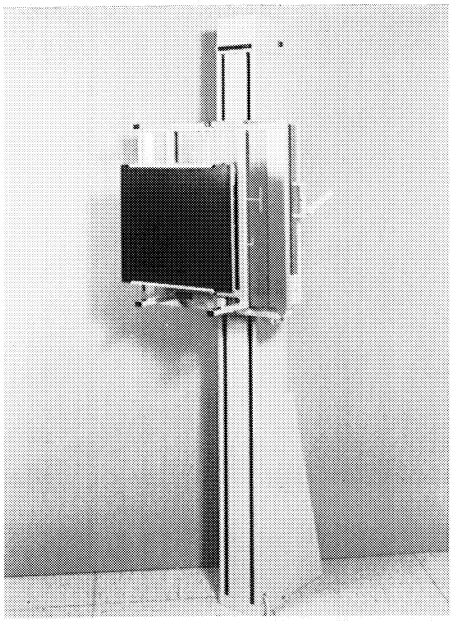


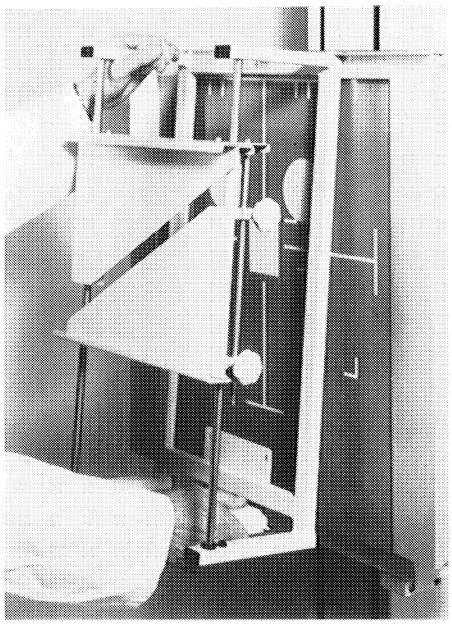


Release
Hold the cassette holder and lift up the tension lever.

Cassette holder for vertical bucky stands

Application
For exposures without grid on the vertical bucky stand.

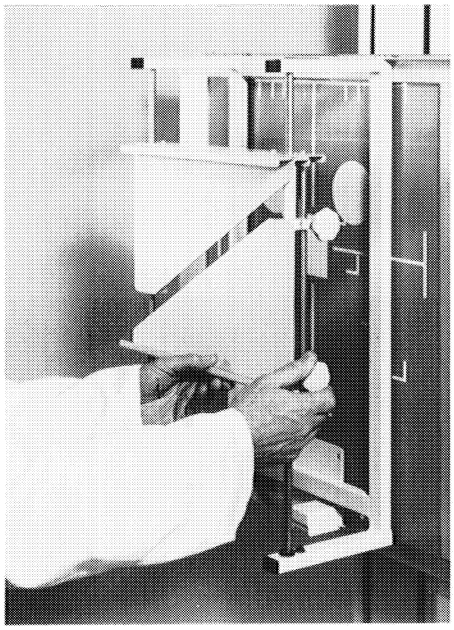




Fastening
Attach the cassette holder at the centre on the top of the stand.

Allow the catch on the bottom of the cassette holder to lock into place.

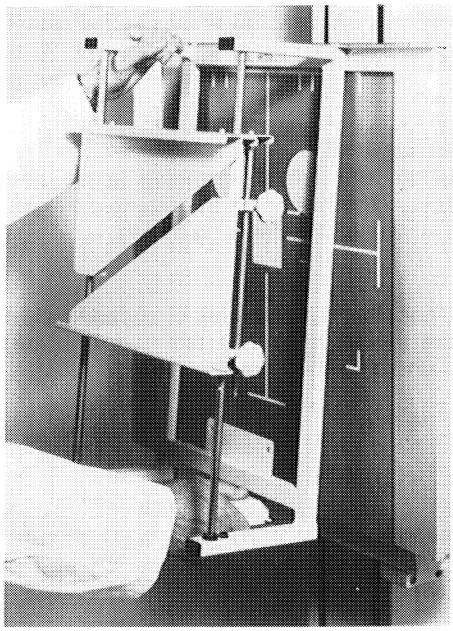
Adjustment
Undo the bottom clamping screw and adjust the lower half of the cassette holder to the required height, tighten up the clamping screw.



Undo the top clamping screw and slide the upper half of the cassette holder upwards.

Insert the cassette at the centre, lower the upper half of the cassette holder and tighten up the clamping screw.

Having undone the bottom clamping screw the height of the cassette holder and the inserted cassette can be adjusted.



Release
Press both halves of the lock-in device together and remove the cassette holder.

Cassette holder for long size cassettes on vertical bucky stand

Application

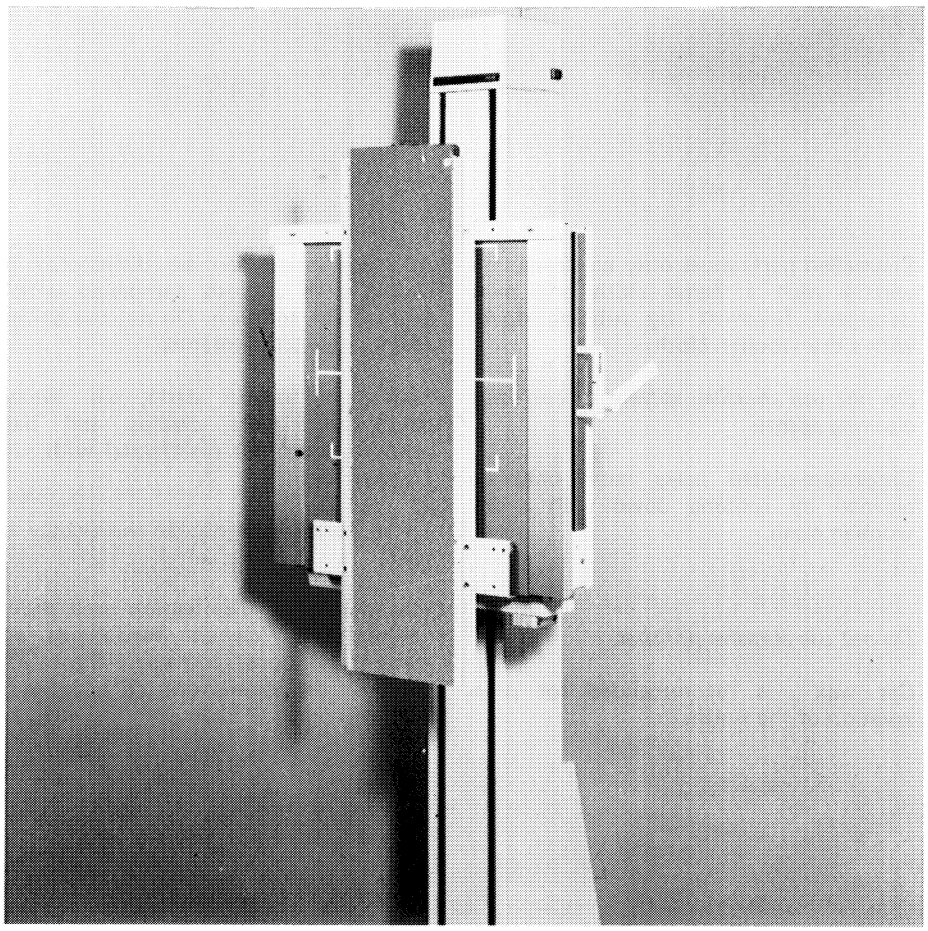
For spine exposures sized 30 cm x 90 cm or 20 cm x 96 cm.

Fastening

Attach the cassette holder to the front of the stand at the centre.

Inserting the cassette

Insert the cassette into the rails from above and slide ot down until ot comes to rest on the lower bracket,
or
insert the top of the cassette into the rails at the foot, tilting it slightly, and slide it trough the upper brackets. Place the cassette against the rail and slide it down until it comes to rest in the lower bracket.



CLEANING

Enamelled parts must only be cleaned by wiping with a damp cloth and mild detergent, followed by rubbing down with a dry woollen cloth.

Do not use abrasive, solvent or corrosive cleaning agents.

Chromium-plated parts must only be cleaned by rubbing down with a dry woollen cloth.

Do not use abrasive polishes.

Car wax is recommended for preservation of the finish.

DISINFECTION

All accessories can be disinfected by wiping with a cloth dampened with a disinfectant solution. Do not use solvent or corrosive disinfectants.

Foam and rubber parts, e.g. ratchet compressor, head clamps and back supports must not disinfected with such disinfectants!

These parts must not be disinfected by heat!

The method of disinfection used should comply with current regulations and recommendations, including those concerning the prevention of explosion hazards.

© 1987 Philips Medical Systems
Development and Manufacturing Centre.
All rights reserved. Reproduction in whole or in part is prohibited without the prior written consent of the copyright-holder. Philips Medical Systems Development and Manufacturing Centre reserves the right to make changes in specifications or to discontinue any product, at any time without notice or obligation, and will not be liable for any consequences resulting from the use of this publication.
Printed in Germany. 4512 109 03801/748H * 1987-03

Internet address: http://www.philips.com/ms

PHILIPS

Let's make things better.